PE NUMBER: 0207581F PE TITLE: JOINT STARS

	RDT&E BUDGET ITEM J	USTIFIC	CATION	SHEET	(R-2 E	(hibit)		DATE		ry 2002
	T ACTIVITY Operational System Development				R AND TITLE					
	COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
	Total Program Element (PE) Cost	145,592	152,728	55,515	112,207	141,883	125,483	55,510	Continuing	TBD
0003	JSTARS	145,592	75,098	55,515	112,207	141,883	125,483	55,510	Continuing	TBD
4995	Multi-Platform RTIP	0	77,630	0	0	0	0	0	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

(U) A. Mission Description

This program element funds two related but distinct Air Force efforts: the Joint Surveillance Target Attack Radar System (Joint STARS) and the Multi-Platform Radar Technology Insertion Program (MP-RTIP).

Beginning in FY03 MP-RTIP funding will be identified under PE 27449F.

There is an Air Force and Army need to provide, from airborne platforms, near-real time surveillance and targeting information on moving and stationary ground targets (growth to maritime operations), slow moving rotary and fixed wing aircraft, and rotating antennas. This information enables operational and tactical commanders to make and execute battle decisions. To meet these needs, the Air Force and Army initiated the Joint Surveillance Target Attack Radar System (Joint STARS) program with the Air Force as lead service. Joint STARS provides target information for pairing direct attack aircraft and standoff weapons against selected targets.

The Multi-Platform Radar Technology Insertion Program (MP-RTIP) program is the result of a restructuring of the Joint STARS Radar Technology Insertion Program (RTIP), formerly a Pre-Planned Product Improvement to Joint STARS. MP-RTIP will deliver enhanced Wide Area Surveillance (WAS) system capabilities to the warfighter, provide for a robust Global Hawk reconnaissance capability, and enable NATO's Alliance Ground Surveillance (AGS) program.

Page 1 of 15 Pages

Exhibit R-2 (PE 0207581F)

DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) February 2002 PE NUMBER AND TITLE **BUDGET ACTIVITY** 07 - Operational System Development 0207581F JOINT STARS (U) B. Budget Activity Justification This program is in Budget Activity 7, Operational Systems Development, due to efforts supporting a fielded, post MS III operational weapon system. These funds are required to meet the requirements, capabilities and efforts further defined in the 'Mission Description' section of the two following R-2s. C. Program Change Summary (\$ in Thousands) FY 2001 FY 2002 FY 2003 **Total Cost** Previous President's Budget 144,118 147,859 247,203 **TBD** Appropriated Value 149,118 147,859 (U) Adjustments to Appropriated Value a. Congressional/General Reductions -1,261b. Small Business Innovative Research -4,566 c. Omnibus or Other Above Threshold Reprogram d. Below Threshold Reprogram 2,408 e. Rescissions -1,368Adjustments to Budget Years Since FY 2002 PBR **TBD** 6,130 -191,688 Current Budget Submit/FY 2003 PBR 152,728 **TBD** 145,592 55,515 Significant Program Changes: The FY03 decrease from the FY03 BES is attributable to C2ISR transition and MP-RTIP moving to the Multi-Sensor Cmd & Control Constellation PE 27449F.

Page 2 of 15 Pages

Exhibit R-2 (PE 0207581F)

RDT&E BUDGET ITEM JU	JSTIFIC.	ATION S	SHEET ((R-2A E	xhibit)		DATE		ry 2002
BUDGET ACTIVITY 07 - Operational System Development				R AND TITLE 1F JOIN	T STARS	i			PROJECT 0003
COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
0003 JSTARS	145,592	75,098	55,515	112,207	141,883	125,483	55,510	Continuing	TBD

In FY2003 the Air Force established a program element for the Multi-Platform Radar Technology Insertion Program (MP-RTIP). Effective with FY03 funding, MP-RTIP efforts will be transferred to PE 27449F, Multi-Sensor Command & Control Constellation, from PE 27581F Joint STARS, BPAC 674995.

(U) A. Mission Description

There is an Air Force and Army need to provide, from airborne platforms, near-real time surveillance and targeting information on moving and stationary ground targets (growth to maritime operations), slow moving rotary and fixed wing aircraft, and rotating antennas. This information enables operational and tactical commanders to make and execute battle decisions. To meet these needs, the Air Force and Army initiated the Joint Surveillance Target Attack Radar System (Joint STARS) program with the Air Force as lead service. Joint STARS provides target information for pairing direct attack aircraft and standoff weapons against selected targets. The system is capable of being cued by other reconnaissance, surveillance, and target acquisition systems and is able to respond rapidly to worldwide contingencies. In addition, the program office (office symbol: Electronic Systems Center/Joint STARS (ESC/JS)) is providing a flight crew training system which supports initial qualification training, update, and continuation training for JSTARS pilots, copilots and flight engineers at a rate that meets ACC operational needs. The operational utility of the system was effectively demonstrated by the two developmental aircraft in support of combat operations during Desert Storm. ESC/JS is also determining the means to enhance the warfighter's battle management command, control & communications (C3) capability to achieve the Global Strike Task Force (GSTF) vision. ESC/JS is developing advanced battle management decision aids and information fusion to enable commanders to make more timely decisions in tracking and killing time critical targets (TCTs) and achieving a Predictive Battle-Space Awareness (PBA) environment (see Kill Chain Enhancement Modification). The Joint STARS Program Office has been designated as the Air Force acquisition lead for the Joint Service Work Station (JSWS) and is currently servicing the Combat Air Forces JSWS needs. In Sep 96 the Defense Acquisition Board (DAB) Milestone III Review approved full rate production of a 19 E-8C program. The 93d Air Control Wing, Robins AFB, GA, declared Joint STARS Initial Operational Capability (IOC) in Dec 97 and the system is now participating in operational and training exercises. After the 1996 Quadrennial Defense Review recommended a revision of the Joint STARS production profile, the Air Force reduced Joint STARS production from 19 to 13 E-8Cs. Full funding for the 14th, 15th and 16th E-8C was provided by OSD and the Congress during the FY00, FY01 and FY02 budget cycles respectively. Long lead funding for the 17th E-8C was included in FY02 PB; full funding is included in the FY03 PB.

Project 0003 Page 3 of 15 Pages Exhibit R-2A (PE 0207581F)

	RDT&E	BUDGET ITEM JUSTIFICATION	SHEET (R-2A Exhibit)	DATE February 2002
	GET ACTIVITY Operational Sys	tem Development	PE NUMBER AND TITLE 0207581F JOINT STARS	PROJECT 0003
(U)	A. Mission Description	·	02010011 001111 0171110	
(U)	FY 2001 (\$ in Thousa			
(U)	\$25,786		ude Support Training System (STS) & Distributed Mis	ssion Training (DMT) and
(U)	\$23,511	Continued Block 30 (such as: SATCOM, Connectivity	ty, ASU (Link 16)) Efforts	
(U)	\$50,359	Continued Block 40 (Multi-Platform RTIP) Efforts.	• •	
(U)	\$30,955	Continued Test Efforts (for example: JTF, FOTS/JE		
(U)	\$6,500	Continued Flight Crew Training System (FCTS) Dev	•	
(U)	\$100		zation/Interoperability Activities (for example: DMS, 22C) Constellation Studies/Analysis, Network Centric	
(U)	\$3,534	Indirect SPO OPS Support		
(U)	\$4,847	Began Global Air Traffic Management (GATM) Pre	EMD Risk Reduction Activities (Congressional Add)	
(U)	\$145,592	Total		
(U)	FY 2002 (\$ in Thousa	nds)		
(U)	\$13,766	Continue Training & Support Systems Developmen		
(U)	\$23,628	Continue Block 30 (such as: SATCOM, Connectivity	, ASU(Link 16)) Efforts	
(U)	\$27,083	Continue Test Efforts (for example: JTF, JETS, Range	ge Support, Support of T-3 & Test Labs)	
(U)	\$643	Complete FCTS Development		
(U)	\$5,800	Reduced Vertical Separation Minimum (RVSM)		
(U)	\$3,224	Indirect SPO OPS Support		
(U)	\$954	Kill Chain Enhancements/Spiral Development		
(U)	\$75,098	Total		
(U)	FY 2003 (\$ in Thousa			
(U)	\$7,500	Complete SATCOM EMD effort.	G	
(U)	\$30,759	Continue Test Effort (for example: JTF, JETS, Rang		
(U)	\$9,100	Continue efforts such as: ASU (Link 16), Connectivit	y, etc.	
(U)	\$372	Kill Chain Enhancements/Spiral Development		
Р	roject 0003	Page	4 of 15 Pages	Exhibit R-2A (PE 0207581F)

DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit) February 2002 BUDGET ACTIVITY PE NUMBER AND TITLE **PROJECT** 07 - Operational System Development 0207581F JOINT STARS 0003 (U) A. Mission Description Continued FY 2003 (\$ in Thousands) Continued (U) \$4.000 **ABCCC Migration to Joint STARS** (U) \$3.784 Indirect SPO OPS Spt (U) \$55,515 Total (U) B. Project Change Summary This program is in Budget Activity 7 - Operational System Development. Initial operational capability was achieved in Dec 97. Developmental work continues on advanced planning activities and systems upgrades, as well as systems integration and interoperability efforts. (U) C. Other Program Funding Summary (\$ in Thousands) FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 **Total Cost** Cost to **Estimate Estimate Estimate Estimate** Complete Actual **Estimate Estimate** (U) Aircraft Procurement, AF, 286,738 317,805 279,268 0 0 0 5,560,847 BP10 (PE 27581F) (U) Modifications, BP11 (PE 33,948 66,458 19,307 25,811 30,767 33,174 44,705 27581F) (U) Spares, BP16 (PE 27581F) 32,212 1,810 35,190 26,364 36,407 611 1,151 424,431 (U) Quantity, Joint STARS E-8C 1 1 Aircraft Proc. (U) D. Acquisition Strategy Joint STARS Low Rate Initial Production (LRIP) was approved by the Defense Acquisition Board (DAB) in FY93. Acquisition began with the procurement of 2 E-8Cs in FY93, and continued at 2 E-8Cs per year through FY97. Procurement funding continued with 1 E-8C in FY98, 2 E-8Cs in FY99, 1 E-8C in FY90, 1 E-8C in FY01 and 1 E-8C in FY02. Long lead funding for the 17th E-8C is included in the FY 02 PB; full funding is included in the FY03 PB. (U) E. Schedule Profile FY 2001 FY 2002 FY 2003 Exhibit R-2A (PE 0207581F) Project 0003 Page 5 of 15 Pages

	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										bruary	2002	
	GET ACTIVITY - Operational System Development		PE NUMBER AND TITLE 0207581F JOINT STARS									PRO. 000	JECT)3
(U)	E. Schedule Profile Continued												
				<u>2001</u>	_			<u>2002</u>				<u>2003</u>	
		1	2	3	4	1	2	3	4	1	2	3	4
` /	RTIP EMD Contract Award	*											
	STS Development Start	*							X				
	SATCOM Development Complete										X		
` /	FCTS Delivered								X				
(U)	RVSM Contract Award							X					
	* Denotes completed event												
	X Denotes planned event												
Р	Project 0003	Page	6 of 15 P	ages					E	xhibit F	R-2A (PE	E 02075	81F)

	RDT&E PRO	GRAM ELE	MENT/PF	ROJECT C	OST BF	REAKDOV	WN (R-3)		DATE F (ebruary 20	02
	GET ACTIVITY Operational System	n Developme	nt			ER AND TITLE 31F JOINT	STARS				PROJECT
(U)	A. Project Cost Breakdov	vn (\$ in Thousand	<u>ls)</u>								
							FY 2		FY 200		FY 2003
(U)	Block 20 (CRP, Training &	• •						786	13,76		
(U)	Block 30 (SATCOM, ASU	* * * * * * * * * * * * * * * * * * * *	•					511	23,62	8	16,600
(U)	Block 40 Multi-Platform R PE established #27449F.	TIP Efforts (funds	realigned to I	BPAC 674995 in	FY02. In F	Y03 new	50,	359		0	0
(U)	Test Efforts						30,	955	27,08	3	30,759
(U)	FCTS Development						6,	500	64	3	0
(U)	GATM PreEMD Risk Red	uction (Congression	onal Add)				4,	847		0	0
(U)	Indirect SPO Support						3,	534	3,22	4	3,784
(U)	R&M Enhancements/Interr	national Activities	(NC3A, CAE	SAR, etc.)				100		0	0
(U)	Kill Chain Enhancements (Spiral Developme	nt)					0	95	4	372
(U)	Reduced Vertical Separation	on Minimum (RVS	SM)					0	5,80	00	0
(U)	ABCCC Migration							0		0	4,000
(U)	Total						145,	592	75,09	8	55,515
(U)	B. Budget Acquisition His	story and Plannin	g Informatio	n (\$ in Thousand	<u>ds</u>)						
(U)	Performing Organizations	<u>s:</u>									
	Contractor or	Contract									
	Government	Method/Type	Award or	Performing	Project						
	Performing	or Funding	Obligation	<u>Activity</u>	Office Office	Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2001	FY 2001	FY 2002	FY 2003	Complete	<u>Program</u>
	Product Development Orga	nizations									
	NG**	CPFF	May 97	166,491	166,491	123,518	0	0		Continuing	TBD
	Computer Replacement										
	Program										
	NG -STS Phase I	FFP	Dec 00	42,100	42,100	0	25,786	13,766	0		39,552
	NG - SATCOM EMD	CPFF	May 97	35,074	37,950	8,370	23,511	23,628	7,500		63,009
	NG - Link 16	FFP	Dec 02	28,400	28,400	0	0	0	9,100		9,100
P	roject 0003			Page	e 7 of 15 Pa	ges			Exhib	it R-3 (PE 02	07581F)

oget activity - Operational System I										
	Developmer	nt			ER AND TITLE S1F JOINT	STARS				PROJECT 0003
Performing Organizations (
Product Development Organiz										
NG - GATM	Various	Mar 01	4,847	4,847	0	4,847	0	0	157,400	162,24
NG - Kill Chain	Various	Various	N/A	N/A	0	0	954	372	Continuing	TB
Enhancements (Spiral Dev)										
NG - Multi-Platform Radar	CPFF	May 97	146,384	146,384	22,372	50,359	0	0		72,73
Tech. Insertion Prog.										
NG - Other Dev. Efforts	Various	Various	N/A	N/A	2,339,634	100	0	0		2,339,73
NLX Corp - Flight Crew	FFP	SEP 00	11,914	11,914	0	6,500	643	0		7,14
Training Sys										
NG - RVSM	TBD	Jun 02	N/A	N/A	0	0	5,800	0		5,8
ABCCC Migration	Various	Various	N/A	N/A	0	0	0	4,000		4,0
** Northrop Grumman										
Support and Management Org	ganizations									
Joint Program Office -		N/A	N/A	N/A	0	3,534	3,224	3,784		10,54
Indirect SPO Ops Support										
Test and Evaluation Organiza	<u>tions</u>									
NG - E-8C Follow-On Test	SS/FFP/CPFF	Aug 96	N/A	N/A	30,625	17,841	15,400	18,499	Continuing	TB
Support										
NG - Aircraft Over &	SS/FFP/CPFF	Aug 96	N/A	N/A	5,480	4,070	3,473	3,358	Continuing	TE
Above Tests										
NG - Follow- On Test	SS/FFP/CPFF	Aug 96	N/A	N/A	1,259	333	338	344	Continuing	TE
Support - MILSTRIP										
Range Support	Allotment	N/A	N/A	N/A	26,696	1,165	1,200	1,236	Continuing	TE
Horizons Tech.	Time and	Various	N/A	N/A	36,136	5,525	4,708	5,149	Continuing	TE
(SETA)	Materials									
Joint Test Force Support	Allotment	N/A	N/A	N/A	25,863	2,021	1,964	2,173	Continuing	TE

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) Fel											
	GET ACTIVITY - Operational System	Developme	nt			BER AND TITLE 81F JOINT	STARS				ROJECT 1003
(U)	Item Description Product Development Proper N/A Support and Management Pro N/A Test and Evaluation Property	Contract Method/Type or Funding Vehicle ty	Award or Obligation Date	<u>Delivery</u> <u>Date</u>		Total Prior to FY 2001	Budget FY 2001	Budget FY 2002	Budget FY 2003	Budget to Complete	<u>Total</u> <u>Program</u>
	N/A Subtotals Subtotal Product Developme Subtotal Support and Manage Subtotal Test and Evaluation Total Project	nt ement				Total Prior to FY 2001 2,493,894 0 126,059 2,619,953	Budget FY 2001 111,103 3,534 30,955 145,592	Budget FY 2002 44,791 3,224 27,083 75,098	Budget FY 2003 20,972 3,784 30,759 55,515	Budget to Complete TBD TBD TBD	Total Program TBD 10,542 TBD TBD
ī	Project 0003			I	Page 9 of 15 Pa	nges			Exhib	it R-3 (PE 02)	07581F)

RDT&E BUDGET ITEM JU	JSTIFIC	ATION S	SHEET ((R-2A E	xhibit)		DATE		ry 2002
BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0207581F JOINT STARS								РРОЈЕСТ 4995
COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4995 Multi-Platform RTIP	0	77,630	0	0	0	0	0	Continuing	TBD

^{1.} In FY 2002, Project Number 674995, Multi-Platform RTIP was established within PE 0207581F, Joint STARS, using existing RTIP funds from PE 0207581F, Joint STARS, Project Number 670003, JSTARS, to better track program funding. Commencing in FY 2003, funding for this continuing project transferred to PE 0207449F Multi-sensor Command and Control Constellation (MC2C), Project 675065 Sensors, reflecting decision to host MP-RTIP radar on 767-400ER platform.

(U) A. Mission Description

The Multi-Platform Radar Technology Insertion Program (MP-RTIP) program is the result of a restructuring of the Joint STARS Radar Technology Insertion Program (RTIP), formerly a Pre-Planned Product Improvement to Joint STARS. MP-RTIP will deliver enhanced Wide Area Surveillance (WAS) system capabilities to the warfighter, provide for a robust Global Hawk reconnaissance capability, and enable the NATO Trans Atlantic Advanced Radar (NATAR) program. This WAS system capability will allow commanders to conduct wide area surveillance to detect, locate, classify, track, and monitor moving targets and provide target information to assigned direct aerospace and ground weapons systems. Wide-Area surveillance is required to monitor the movement and disposition of enemy forces and for use in resource prioritization, force allocation and Intelligence Preparation of the Battlefield at Army, Navy and Air Force Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) elements. To that end, MP-RTIP will include design of a modular, scalable two-dimensional active electronically scanned array (2D-AESA) radar, and development, fabrication, and test of MP-RTIP radars suitable for future integration on various airborne platforms. Specifically, this modular, scalable radar, when integrated on a suitable WAS airborne platform, must deliver mission capability as reflected in the validated RTIP Operational Requirements Document (ORD) by 2012. Although the users' need date for an RTIP capability remains 2010; the user has accepted the 2012 delivery date. The radar must meet the US sensor commitment to NATO in 2007, and when integrated on an unmanned air vehicle, provide enhanced Global Hawk (GH) capability. The MP-RTIP program includes concept exploration, technology development, system development/demonstration, and spiral development efforts supporting continuous improvements and implementation of Command & Control, Intelligence, Surveillance, and Reconnaissance (C2ISR) capabilities to enable

(U) FY 2001 (\$ in Thousands)

(U) \$0 Activity prior to FY02 reported in PE 0207581; Project 670003.

(U) \$0 Total

Project 4995 Page 10 of 15 Pages

DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit) February 2002 BUDGET ACTIVITY PE NUMBER AND TITLE **PROJECT** 07 - Operational System Development 0207581F JOINT STARS 4995 A. Mission Description Continued FY 2002 (\$ in Thousands) \$73.970 Continue Multi-Platform RTIP radar design and development for Wide Area Surveillance (WAS), Global Hawk target platforms, and NATAR. (U) \$1.760 Continue Test Efforts (includes Operator-In-The-Loop [OITL]; Joint Test Force Support; AFOTEC Support) \$1,300 Continue SPO Operations (U) \$600 Continue Future Studies/Spiral Development--includes concept exploration, program definition/risk reduction, and spiral development efforts supporting continuous improvements and implementation of Command & Control, Intelligence, Surveillance, and Reconnaissance (C2ISR) capabilities to enable a joint global strike task force. These efforts include but are not limited to manned and unmanned platforms, space, data links, combat identification, and advanced battle management command, control, and communications (BMC3) concepts. (U) \$77,630 Total FY 2003 (\$ in Thousands) (U) \$0 Continuing activity transferred to PE 0207449F, Multi-sensor Command and Control Constellation (MC2C), Project 675065 Sensors, reflecting decision to host MP-RTIP on a 767-400ER. (U)\$0 Total

(U) B. Project Change Summary

This program is in Budget Activity (BA) 7, Operational System Development. In an Acquisition Decision Memorandum dated 11 Dec 00, the Multi-Platform Radar Technology Insertion Program (MP-RTIP) was created from the Radar Technology Insertion Program (RTIP) to leverage the RTIP Wide Area Surveillance radar design for application to the Global Hawk and NATAR platforms. The MP-RTIP program is a result of a restructuring of the Joint STARS RTIP program, formerly a Pre-Planned Product Improvement to Joint STARS.

Specific Changes:

FY 2002: Decrease of \$1,370 reflects general Congressional reductions.

FY 2003: Continuing activity in FY 2003 for this project transferred to PE 0207449F Multi-sensor Command and Control Constellation (MC2C), Project 675065 Sensors, reflecting decision to host MP-RTIP radar on 767-400ER platform. Transferred funding increased by \$10,325 for additional risk reduction testing during radar design.

Project 4995 Page 11 of 15 Pages Exhibit R-2A (PE 0207581F)

	RDT&E BUDGET ITE	M JUSTIFI	CATION	SHEET (R-2A Ext	nibit)		DATE Febr	uary 2002
•	GET ACTIVITY Operational System Developmer	nt			RAND TITLE F JOINT	STARS	•		PROJECT 4995
(U)	C. Other Program Funding Summary (\$ in FY 2001 Actual	Thousands) FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to	
(U) (U) (U) (U)	AF RDT&E PE 0305206F/Project 674819 PE 0305205F/Project 674799 Other APPN Multi Platform-Common Data Link (PE 0305 GLOBAL HAWK (PE 0305205F)	9,000 206F)	10,000 17,000	7,000 40,000	2,000 13,000	1,000		Continuing Continuing	
(U)	D. Acquisition Strategy The MP-RTIP program is currently planning f Production (LRIP) quantity is one sensor kit fo prior to proceeding with LRIP. All other proce	or the WAS airc	eraft, and seven	sensors for G	lobal Hawk. I	Exit criteria wil	l be establishe		
(U)	E. Schedule Profile								
			1	<u>FY 200</u> 2	<u>11</u> 3 4	<u>FY</u> 1 2	2002 3 4	L 1	<u>FY 2003</u> 2 3 4
(U)	MP-RTIP PHASE 1 AWARD		*	2	3 4	1 2	3 4	t 1	2 3 4
. /	MP-RTIP PHASE 1 DEFINITIZED				*				
(U)	MP-RTIP INTEGRATED BASELINE REVIE	EW			*				
	RADAR REQUIREMENTS REVIEW					*			
· ′	RADAR FUNCTIONAL REVIEW					X			
. /	MP-RTIP PLATFORM DECISION					*		**	
(U) (U)	**INITIAL DESIGN REVIEW (IDR) **MILESTONE B							X	X
(0)	* Denotes completed event								Λ
	X Denotes planned event								
	** Note: FY 2003 activity transfers to PE 020	7449F, Multi-se	ensor Command	l and Control	Constellation	(MC2C); Proje	ct 675065 Ser	nsors, reflecting	g decision to host
Р	roject 4995		Page	12 of 15 Page	es			Exhibit R-2	A (PE 0207581F)

RDT&E BUDGET ITEM JUSTI	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)									
BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0207581F JOINT STA	RS		PROJECT 4995						
(U) E. Schedule Profile Continued	FY 2001	FY 2002		FY 2003						
MP-RTIP on a 767-400ER platform.	1 2 3 4 1	2 3 4	1	2 3 4						
Project 4995	Page 13 of 15 Pages		Exhibit R	-2A (PE 0207581F)						

	RDT&E PROG	RAM ELEI	MENT/PF	ROJECT CO	OST BF	REAKDO	WN (R-3)		DATE F	ebruary 20	002
	GET ACTIVITY					ER AND TITLE			•		PROJECT
07 -	Operational System	Developmer	nt		020758	31F JOINT	STARS			1	4995
(U)	A. Project Cost Breakdown	(\$ in Thousand	<u>ls)</u>								
							FY 2	2001	FY 20		FY 2003
(U)	MP-RTIP								73,97		0
(U)	Test Efforts (OITL, JTF, AFC	OTEC)							1,70		0
(U)	SPO Operations								1,30		0
(U)	Future Studies/Spiral Develo	pment							60		0
(U)	Total MP-RTIP's funding was a par								77,63		0
(T)	Project 674995. NATAR with Commencing in FY 2003 this reflecting decision to host MI	s continuing active P-RTIP on a 767	vity will trans -400ER platfo	fer to PE 0207449 orm.	9F, Multi-se				•		
(U)	B. Budget Acquisition Histo	ry and Planning	g Information	n (\$ in Thousand	<u>(s)</u>						
(U)	Performing Organizations:										
	Contractor or	Contract									
	Government	Method/Type	Award or	Performing	<u>Project</u>						
	Performing	or Funding	Obligation	<u>Activity</u>	<u>Office</u>	Total Prior	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2001	FY 2001	FY 2002	FY 2003	<u>Complete</u>	<u>Program</u>
	Product Development Organi									~	
	Northrop Grumman-Multi Platform-Radar Technology Insertion Program (RTIP funding prior to FY02 reported in Project 670003, same PE)	CPAF	DEC 00					73,970	0	Continuing	TBD
	MIT/Lincoln Labs	Various	Various	N/A	N/A			600	0	Continuing	TBD
	Support and Management Org	ganizations									
	Program Office Support	N/A	N/A	N/A	N/A			1,300	0	Continuing	TBD
Р	roject 4995			Page	14 of 15 Pa	nges			Exhib	oit R-3 (PE 02	207581F)

	RDT&E PROG	RAM ELE	MENT/P	ROJECT C	OST BE	REAKDO	WN (R-3)		DATE F (ebruary 20	002
	GET ACTIVITY - Operational System	Developme	nt			SER AND TITLE 81F JOINT	STARS		•		PROJECT 4995
(U)	Performing Organizations Of Test and Evaluation Organization OITL JTF Support AFOTEC Support ** Note: FY 2003 activity tra MP-RTIP on a 767-400ER pl	Allotment Allotment Allotment Allotment Allotment ansfers to PE 020	N/A N/A N/A 07449F, Multi	N/A N/A N/A -sensor Command	N/A N/A N/A d and Contr	ol Constellation	n (MC2C); Pro	1,000 60 700 Dject 675065 S	0 0 0 Sensors, refle	Continuing Continuing Continuing ecting decision	TBD TBD TBD n to host
(U)	Item Description Product Development Propert N/A Support and Management Pro N/A Test and Evaluation Property	Contract Method/Type or Funding Vehicle	Award or Obligation Date	<u>Delivery</u> <u>Date</u>		Total Prior to FY 2001	Budget FY 2001	Budget FY 2002	Budget FY 2003	Budget to Complete Continuing Continuing	<u>Total</u> <u>Program</u> TBD TBD
	N/A Subtotals Subtotal Product Developmer Subtotal Support and Manage Subtotal Test and Evaluation Total Project					Total Prior to FY 2001	Budget FY 2001	Budget FY 2002 74,570 1,300 1,760 77,630	Budget FY 2003 0 0 0	Continuing Budget to Complete TBD TBD TBD TBD TBD	TBD Total Program TBD TBD TBD TBD TBD
F	Project 4995			Page	: 15 of 15 Pa	ages			Exhib	it R-3 (PE 02	207581F)